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determining a degree of hemolysis of said sample;  
adding 4-nitrophenyl phosphate to said sample;  
determining an optical measurement of said sample at  $450 \pm 10$  nm;  
determining a correction factor by correlating the degree of hemolysis of said sample with a level of interference due to said hemoglobin; and  
correcting the optical measurement by combining the correction factor with the optical measurement.

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9. (new) The method of claim 8, wherein the optical measurement comprises an absorbance determination.

10. (new) The method of claim 8, wherein said sample comprises a plasma or serum sample.

11. (new) The method of claim 8, wherein said sample comprises a blood substitute.

12. (new) The method of claim 11, wherein the blood substitute comprises derivatized hemoglobin, polymerized hemoglobin, modified hemoglobin, or cross-linked hemoglobin.

13. (new) The method of claim 11, wherein the blood substitute comprises human hemoglobin or bovine hemoglobin.

14. (new) The method of claim 11, wherein the blood substitute comprises a recombinantly-produced hemoglobin.

15. (new) The method of claim 11, wherein the blood substitute comprises diaspirin-crosslinked hemoglobin.

16. (new) The method of claim 8, wherein the determining an optical measurement is conducted over a period of time of between about 1 and 4 minutes.

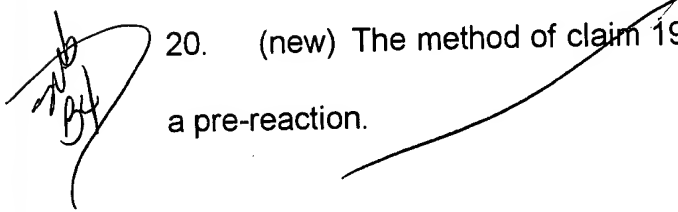
17. (new) The method of claim 8, wherein said sample has a hemoglobin concentration of up to about 3000 mg/dl.


18. (new) The method of claim 8, wherein said sample has a hemoglobin concentration of up to about 6500 mg/dl.

19. (new) A method of determining a level of alkaline phosphatase in a sample containing 4-nitrophenyl phosphate, the method comprising:

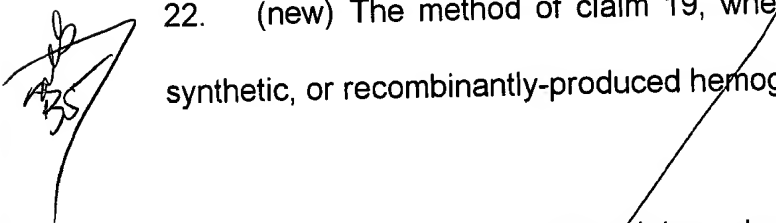
determining an optical measurement of said sample at  $450 \pm 10$  nm; and

correcting the optical measurement by combining the optical measurement with a correction factor that represents a correlation between a degree of hemolysis of said sample and a level of interference due to hemoglobin present in said sample.

 20. (new) The method of claim 19, wherein the correction factor is determined in a pre-reaction.

 21. (new) The method of claim 19, wherein said sample comprises a plasma or serum sample.

22. (new) The method of claim 19, wherein said sample comprises a blood substitute.

 22. (new) The method of claim 19, wherein the hemoglobin comprises natural, synthetic, or recombinantly-produced hemoglobin.

23. (new) A method of determining a level of alkaline phosphatase in a sample, comprising:

determining a degree of hemolysis of said sample;

adding 4-nitrophenyl phosphate to said sample;

measuring a change in absorbance of said sample at  $450 \pm 10$  nm;